



Position Title: Cartography Consultant
Primary Location: Haiti
Position Status: Consultant

MERCY CORPS Alternative Energy and Resource Management

Mercy Corps helps communities facing the world's toughest challenges cope with the effects of climate change, improve their living environment, and access clean and efficient sources of energy. We focus on market-driven solutions to make all advancements sustainable, scalable, and locally-led by the communities we work with.

Mercy Corps considers climate change a lens through which to assess both threats and opportunities to development and humanitarian action. Our efforts are intended to provide adaptation strategies for communities coping with the effects of climate change; and provide viable options for communities to overcome poverty and access clean energy while diminishing their own negative impacts on the environment.

Mercy Corps leverages its presence in more than 35 countries with the intent of reaching hundreds of communities and thousands of people to bring results to scale. Regarding climate change it focuses on three main areas:

- ***Alternative energy:*** Identifying and promoting alternative energy options that benefit poor and vulnerable communities and provide sustainable economic benefits at meaningful scale.
- ***Sustainable Resource Management:*** Supporting and promoting best practices and enhancing community capacity to protect environmental and ecological services.
- ***Advocacy, Outreach, and Example:*** Catalysing governments and people to replicate successful, environment and climate-friendly programs.

GENERAL POSITION SUMMARY

Mercy Corps Haiti has been awarded a US\$2.5 million grant from the Barr foundation for the *Vie, Te & Eneji / Life, Land & Energy: Promoting Integrated Watershed Rehabilitation and Energy Programming for Poverty Alleviation in Haiti* project. There is a need for consulting support to develop several project-related maps that capture the evolution of the beneficiaries due to project activities as well as to advise in the acquisition of satellite maps donated to the project.

Timing: **October 21st to November 8th 2013.** On-site (Port au Prince or Saint Marc, Haiti) as required.

ESSENTIAL JOB FUNCTIONS

- Create a map of the agroforestry parcels established in two watersheds located in the localities of Ti Bwa and Sibas. The majority of the GPS points of these parcels have already been plotted. This map should include interactive features such as pop-up windows which display beneficiary photos (already available) and illustrative project statistics that show an evolution of project beneficiaries due to project activities, such as a change in parcel crop diversity, improved agricultural practices and livelihood opportunities implemented.
- Calculate the land area of the agroforestry parcels in the two project implementation zones, they are small, steeply-sloped parcels or varying sizes. The area calculation must take into account the slope of the land. Each parcel's area should be calculated using the GPS points provided by the VTE M&E team. This information can be included in the interactive map mentioned in the above deliverable. This is necessary because the beneficiaries only know approximate sizes of their land.
- Work with Haiti and Portland-based Mercy Corps staff to understand the technical difficulties experienced in manipulating the satellite images donated by Planet Action and if possible resolving them so the satellite images can be used. Planet Action is a non-profit which provides free satellite imagery for initiatives and non-profits working towards sustainability and climate change awareness. The satellite images donated to VTE by Planet Action cannot currently be viewed or manipulated to serve project needs. Resolving this technical difficulty will probably involve advising Mercy Corps on the software necessary for handling the satellite images, pricing the software and purchasing the software if feasible with the help of the procurement team in Haiti.
- If the technical difficulties experienced in manipulating the satellite images donated by Planet Action cannot be resolved new sources of satellite images must be identified, priced, procured and put into a format that Mercy Corps can manipulate and share with its' donors.
- Use the satellite images to create maps for each target area that illustrate the following:
 - Location of important landmarks (water sources, MC and partner offices, fish farm, major roads, markets...)
 - Boundaries of the beneficiary agroforestry parcels (with the model agroforestry parcels differentiated visually)
 - Boundaries of the stabilized ravines
 - Boundaries of the target watersheds
 - Boundaries of the fuel wood forests
 - Boundaries (reach) of the irrigation projects
 - Additional noteworthy project locations or geographical data

ACCOUNTABILITY

Reports directly to: Project Manager AERR

Works directly with: The VTE M&E Officer and Project Officer

KNOWLEDGE AND EXPERIENCE

- M.S./M.Sc. or equivalent or above in a field related to GIS.
- Familiarity with a broad range of GIS and data management systems that can be managed by non-specialists.

LIVING CONDITIONS/ENVIRONMENTAL CONDITIONS

The consultants airfare cost will be covered and the consultant will be provided with housing at the simple Mercy Corps guest houses located in Saint Marc and Port-au-Prince. When spending time in the field locations accommodations are primitive and arriving at the field locations requires traveling on bad roads. Local transportation in Haiti will also be provided. Food and all other expenses are the responsibility of the consultant.

TIMELINE

Beginning on **October 21st to November 8th 2013**. (Start date can be slightly flexible based on the availability of the consultant).

SIGNATURES:

Consultant

Date

Supervisor

Date